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ABSTRACT

The 36 tests in this bibliography are used to assess an individual's knowledge of physics and the physical sciences. Although there are 2 tests for primary education, the remaining 34 tests are targeted to high school students, college students, or adults. The majority of tests are concerned principally with physics. Some of the tests have physics as a subset of larger issues such as physical science, general science, general batteries, mechanical comprehension, or occupational knowledge. Each test citation may include the following data elements: AN (a six-digit identification number assigned by the Test Collection); TI (name of the instrument); DT (components within the overall test that assess particular skills or factors); AU (personal or institutional author); YR (year in which the test was published or copyrighted); AV (test publisher or distributor); GL (list of grades for which the test is suitable); TG (list of ages for which the test is suitable); and AB (a description of the test and its purpose). (HAC)

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ETS TEST COLLECTION

ANNOTATED BIBLIOGRAPHY OF TESTS

# PHYSICS AND PHYSICAL SCIENCE

ED 366 610

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TEST COLLECTION
EDUCATIONAL TESTING SERVICE
PRINCETON, NJ 08541

**PHYSICS AND PHYSICAL SCIENCE**
OCTOBER 1992

SUPERSEDES MARCH, 1990 EDITION

## INTRODUCTION

### Scope of Bibliography

Included on this list are descriptions of a number of physics achievement tests for the secondary level. Several mechanical comprehension tests, which include knowledge of physical laws, are also described, as well as item banks that contain test questions related to physics and physical science.

### Availability

Copies of the tests described on the following pages must be obtained directly from the publisher, as stated in the AV AVAILABILITY section of each test citation. Generally, the Test Collection does not have distribution rights for its holdings. However, in special instances, the Test Collection has been granted permission from individual authors to distribute their tests, which are primarily research instruments. The AV AVAILABILITY information for these instruments will be Tests in Microfiche, Test Collection, Educational Testing Service, Princeton, NJ 08541.

### Guide to Citation Elements

The following is a guide to the various elements which may be present in a test citation:

**AN** - Six-digit identification number assigned by the Test Collection

**TI** - Name of the instrument

**DT** - Components within the overall test which assess particular skills or factors

**AU** - Personal or institutional author

**YR** - Year test was published or copyrighted

**AV** - Test publisher or distributor; the organization which sells or distributes the instrument

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GL - List of grades for which test is suitable

TG - List of ages for which test is suitable

AB - A description of the test and its purpose

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AN ACCESSION NUMBER: TC017717 ETS 9204.
TI TITLE: NTE Specialty Area Tests: Physics.
AU INSTITUTIONAL AUTHOR: Educational Testing Service, Princeton, NJ.
AV AVAILABILITY: NTE Programs; Educational Testing Service, P.O. Box 6051; Princeton, NJ 08541-6051.
GL GRADE LEVEL: Higher Education.
NT NOTES:
TIME: 120.
ITEMS: 100.
AB ABSTRACT: The NTE Program tests are standardized, secure, examinations that are measures of academic achievement for college students in teacher education programs and for advanced candidates who have received additional training in specific fields. This test is designed to assess the preparation of prospective teachers of secondary school physics. Questions are specific to the field of physics and also deal with topics common to physical science in general. The test questions cover the topics of mechanics, heat, wave motion, electricity and magnetism, and atomic and nuclear physics, the nature of matter and the interaction of matter and energy.

AN ACCESSION NUMBER: TC017134 ETS 9104.
TI TITLE: Knowledge Master.
AU INSTITUTIONAL AUTHOR: Academic Hallmarks, Durango, CO.
YR YEAR: 81.
AV AVAILABILITY: Academic Hallmarks; P.O. Box 998; Durango, CO 81302.
GL GRADE LEVEL: 6; 7; 8; 9; 10; 11; 12.
AB ABSTRACT: This item pool or library of test items is contained on 47 Apple II compatible disks. It was designed for use in testing or quizzing students on screen or in print, or as flash cards for academic competition. Items are arranged in difficulty levels based on Bloom's Taxonomy. Includes over 18,000 questions covering high school curriculum areas. A similar series is available for junior-high and middle schools. Covers: American history, government, world history, geography, economics, law, current events, mathematics, geometry, word problems, biology, health, psychology, physics, chemistry, astronomy, meteorology, geology, oceanography, building trades, sports, fine arts, English, spelling, vocabulary, literature, mythology, Shakespeare, social studies, life science, earth science, physical science. A separate short answer series is produced for "Knowledge Bowl" type competitions. New sets of secure questions for local, regional or state competitions are produced yearly.

AN ACCESSION NUMBER: TC016681 ETS 9004.
TI TITLE: Eds Diagnostic Skill Level Inventory for Science, Revised.
DT SUBTESTS: Life Science; General and Human Physical Science; Earth Science; Physics and Chemistry.
AU AUTHOR: Henney-R-Lee.

YR YEAR: 88.
AV AVAILABILITY: Educational Diagnostic Services, Inc.; 2370 County Road 13; Corunna, IN 46730.
TG TARGET AUDIENCE: Adults.
NT NOTES:
TIME: 90.
ITEMS: 66.
AB ABSTRACT: Diagnoses strengths and weaknesses of adult students in the science subject area. Contains a Pre-Instructional and a Post-Instructional Inventory. Each Science Inventory contains twelve passages from writings on various sciences. Each passage is followed by comprehension questions. Science passages are divided into two categories: Life Science and Physical Science. These inventories determine the adult's ability to comprehend vocabularies of these various sciences. Inventories parallel the type of questions and skills which are required for the General Educational Development (GED) test.

AN ACCESSION NUMBER: TC016127 ETS 9108.
TI TITLE: AAPT/NSTA High School Physics Exam.
AU INSTITUTIONAL AUTHOR: National Science Teachers Association, Washington, DC.
YR YEAR: 88.
AV AVAILABILITY: National Science Teachers Association: 1742 Connecticut Avenue, N.W., Washington, DC 20009.
GL GRADE LEVEL: 9; 10; 11; 12.
NT NOTES: See also NABT/NSTA High School Biology Exam (TC 016128) and AGI/NST Earth Science Exam (TC 016129).
TIME: 90.
ITEMS: 80.
AB ABSTRACT: The National Science Teachers Association (NSTA) examinations are designed to assess content and process skills in the science disciplines. They offer the advantage of a nationally normed, nationally developed exam to evaluate schools' science programs and students' achievement. The purpose of this test is to help students and their teachers evaluate the students' understanding of basic physics concepts. This examination is divided into sections on mechanics; waves, optics, and sound; heat and kinetic theory; electricity and magnetism; and modern physics. Each section can be administered separately or in combination with any other section. Two forms of the examination are available.

AN ACCESSION NUMBER: TC015673 ETS 8807.
TI TITLE: Promotional Fire Service Tests: Command Level, Fire Service Administrator (Battalion Chief), 575.
DT SUBTESTS: Communication Skills; Fire Protection and Alarm Systems; Water Supply, Systems Analyses and Fire Protection Hydraulics; Fire Service Administration; General Physics; Public Speaking; Personnel Management; Sociological Aspects of Fire Protection;

Major Emergency Planning.
AU INSTITUTIONAL AUTHOR: Advanced Research Resources Organization.
AV AVAILABILITY: International Personnel Management Association: 1617 Duke Street, Alexandria, VA 22314.
TG TARGET AUDIENCE: Adults.
NT NOTES:
TIME: 180.
ITEMS: 175.
AB ABSTRACT: Assesses the knowledge, skills and abilities of candidates for the position of battalion fire chief. Available on a rental basis only. Documentation is available in event of challenge. Content validation.

AN ACCESSION NUMBER: TC015572 ETS 8807.
TI TITLE: Major Field Achievement Tests.
DT SUBTESTS: Biology; Chemistry; Computer Science; Economics; Education; Engineering; Geology; History; Literature in English; Mathematics; Music; Physics; Political Science; Psychology; Sociology.
AU INSTITUTIONAL AUTHOR: Educational Testing Service, Princeton, NJ.
YR YEAR: 88.
AV AVAILABILITY: Program Director; Major Field Achievement Tests; GRE Programs; Educational Testing Service, Princeton, NJ 08541.
GL GRADE LEVEL: Higher Education.
NT NOTES:
TIME: 120.
AB ABSTRACT: Designed to assess the outcomes of higher education by measuring undergraduate learning in specific disciplines. These tests are based on subject area tests from the Graduate Record Examination but are less difficult and cover the undergraduate curriculum. Tests are administered by the institution at their convenience and scored by the publisher. Tests reflect basic knowledge and understanding gained from courses. Subscores are reported for areas within each field. Different departmental needs for information can be met by administering different subforms of the test. Departmental and individual scores can be provided.

AN ACCESSION NUMBER: TC015555 ETS 8807.
TI TITLE: EDS GED Test.
AU AUTHOR: Henney-R-Lee.
YR YEAR: 87.
AV AVAILABILITY: Educational Diagnostic Services; P.O. Box 347; Valparaiso, IN 46383.
TG TARGET AUDIENCE: Adults.
NT NOTES:
ITEMS: 320.
AB ABSTRACT: These tests are part of a course of study taken by adult students who are preparing to take the General Educational Development Tests (GED) in order to qualify for a high school

equivalency certificate or diploma. Each of the power tests is to be used following completion of designated lessons in the student textbook. The tests are divided into developmental sections and GED-type questions. The lessons and tests cover general science and the scientific methods, physics, chemistry, earth science, astronomy, biology, and physiology. Each test should be completed in 50 minutes or less; otherwise appropriate sections should be restudied and the tests readministered.

AN ACCESSION NUMBER: TC015488 ETS 8807.
TI TITLE: High School Subject Tests: Physics, Form B.
AU AUTHOR: Wick-John-W; Gatta-Louis-A.
YR YEAR: 88.
AV AVAILABILITY: American Testronics; P.O. Box 2270; Iowa City. IA 52244-9990.
GL GRADE LEVEL: 9; 10; 11; 12.
NT NOTES:
TIME: 40; Approx.
ITEMS: 40.
AB ABSTRACT: Two equivalent forms A and B allow pre- and posttest analyses of individuals, classes, or specific groups for grades 9 through 12. Tests are both norm-referenced and criterion-referenced. Can be used as an end-of-course assessment to measure students' knowledge of Physics or as a pre-assessment to measure students' knowledge prior to formal course of study of Physics.

AN ACCESSION NUMBER: TC015487 ETS 8807.
TI TITLE: High School Subject Tests: Physical Science, Form B.
AU AUTHOR: Wick-John-W; Gatta-Louis-A.
YR YEAR: 88.
AV AVAILABILITY: American Testronics; P.O. Box 2270; Iowa City, IA 52244-9990.
GL GRADE LEVEL: 9; 10; 11; 12.
NT NOTES:
TIME: 40; Approx.
ITEMS: 50.
AB ABSTRACT: Two equivalent forms A and B allow pre- and posttest analyses of individuals, classes, or specific groups for grades 9 through 12. Tests are both norm-referenced and criterion-referenced. Can be used as an end-of-course assessment to measure students' knowledge of Physical Science or as a pre-assessment to measure students' knowledge prior to formal course of study of Physical Science.

AN ACCESSION NUMBER: TC015048 ETS 8710.
TI TITLE: End-of-Course Tests: Physics.
AU INSTITUTIONAL AUTHOR: Educational Testing Service, Princeton, NJ.
YR YEAR: 86.

AV AVAILABILITY: CTB/Macmillan/McGraw Hill; 2500 Garden Road, Monterey, CA 93940.
GL GRADE LEVEL: 7; 8; 9; 10; 11; 12.
NT NOTES:
TIME: 45.
ITEMS: 48.
AB ABSTRACT: Designed to measure the subject matter taught in certain junior and senior high school courses. Tests can be used to supplement or substitute for basic skills achievement testing at these levels. There are nine different end-of-course tests, one in each of the following areas: algebra, geometry, physics, chemistry, biology, world history, American history, computer literacy, and consumer economics. Tests represent the most commonly taught curricula in a one-year course in each of these subject areas. Normative data were derived from national reference groups who had completed a course in the content area. The physics test measures knowledge and understanding obtained in the classroom and laboratory and emphasizes items that require the students to apply what they have learned. Items relate to atomic structure and theory, kinetic theory and gases, heat, mechanics, waves, and electricity and magnetism.

AN ACCESSION NUMBER: TC014793 ETS 8609.
TI TITLE: MAPS: College Entry Level Assessment.
DT SUBTESTS: English; Mathematics; Reading; Written English Expression; Computation; Applied Arithmetic; Elementary Algebra; Intermediate Algebra; Test of Standard Written English; Scholastic Aptitude Test; American History and Social Studies; Biology; Chemistry; English Composition; French Reading; German Reading; Mathematics Level 1; Physics; Spanish Reading; European History and World Cultures; French Listening-Reading; Literature; Mathematics Level 2; German Listening Comprehension; German Listening-Reading; Spanish Listening Comprehension; Spanish Listening Reading; Hebrew; Greek.
AU INSTITUTIONAL AUTHOR: Educational Testing Service, Princeton, NJ.
AV AVAILABILITY: Multiple Assessment and Program Services of the College Board; CN6725; Princeton, NJ 08541-6725.
GL GRADE LEVEL: Higher Education.
AB ABSTRACT: This series of tests is for use by colleges, for admissions, placement of students, remedial or developmental studies, exemption, guidance and counseling. Some of the tests are drawn from the national Admissions Testing Program, including the Test of Standard Written English, Scholastic Aptitude Test and Achievement Tests. Some are self-scoring (English, Mathematics). The tests are in three levels of difficulty: somewhat less difficult than typical entry-level tests; standardized four-year college entry level; advanced preparation for college work.

AN ACCESSION NUMBER: TC014213 ETS 8512.
TI TITLE: Teacher Occupational Competency Testing: Mechanical Technology.
AU INSTITUTIONAL AUTHOR: National Occupational Competency Testing Institute, Big Rapids, MI.
AV AVAILABILITY: National Occupational Competency Testing Institute; Ferris State College, Big Rapids, MI 49307.
TG TARGET AUDIENCE: Adults.
NT NOTES:
TIME: 540.
ITEMS: 65.
AB ABSTRACT: One of a series of tests designed to determine a level of occupational competence for vocational education teachers. A written test covers theoretical concepts of the occupation and a performance test examines selected manipulative skills. They may be used for credit by examination and also for teacher certification. The written test covers: statics, strength of materials, mathematics, machine tool operations, metallurgy, electricity, physics, fluid mechanics, thermodynamics, applications of basic computer programming to engineering. The performance test requires the test taker to: design a component part from data provided; prepare pertinent drawings from sketches and other information; conduct tests, using test instruments to determine, evaluate and record data; report on data.

AN ACCESSION NUMBER: TC013905 ETS 8512.
TI TITLE: Certification Examination for Manufacturing Engineers and Technologists.
AU INSTITUTIONAL AUTHOR: Society of Manufacturing Engineers, Dearborn, MI.
YR YEAR: 72.
AV AVAILABILITY: Society of Manufacturing Engineers; One SME Drive, P.O. Box 930; Dearborn, MI 48121.
TG TARGET AUDIENCE: Adults.
NT NOTES:
TIME: 180.
ITEMS: 130.
AB ABSTRACT: The purpose of these examinations is to provide a means of recognizing and documenting an individual's abilities to meet standards related to one or more of the many aspects of modern manufacturing engineering and technology. Two certification programs are offered: Certified Manufacturing Engineers (CMfgE) and Certified Manufacturing Technologists (CMfgT). For the CMfgE designations, candidates must pass two examinations: 1) a basic examination on engineering fundamentals covering mathematics, physics, engineering drawing and print reading, engineering materials, metallurgy and heat treatment practice, statics, strength of materials, metrics, and the SI system, and 2) specialty examination in one of several areas. Candidates for the CMfgT designation must pass the basic examination in engineering, but no

specialty test is required. The specialty examinations available to the CMfgE candidate are assembly, material removal, product engineering, casting and molding, manufacturing systems, manufacturing management, electrical and electronic manufacturing, material forming, plant layout and material handling, general manufacturing engineering, tool engineering (pressowrking, jigs and fixtures, forging die design, machine design), computer integrated manufacturing, general finishing processes, and robotics.

AN ACCESSION NUMBER: TC013904 ETS 8512.
TI TITLE: Certification Examin..ion for Nurse Anesthetists.
AU INSTITUTIONAL AUTHOR: Council on Certification of Nurse Anesthetics, Park Ridge, IL.
YR YEAR: 45.
AV AVAILABILITY: Council on Certification of Nurse Anesthetists: 216 Higgins Road, Park Ridge, IL 60068.
TG TARGET AUDIENCE: Adults.
NT NOTES:
TIME: 240.
AB ABSTRACT: This examination is used for the certification of nurse anesthetists for entry into practice. The test assesses knowledge of anatomy, physiology, pathophysiology, chemistry, physics, pharmacology, and principles of professional practice. Candidates must have an associate degree in nursing plus 30 credits, a diploma in nursing plus thirty credits, or a bachelor of science degree in nursing. Requirements also include registered nurse licensure and one year critical-care nursing experience.

AN ACCESSION NUMBER: TC013766 ETS 8512.
TI TITLE: Tests of Engineering Aptitude, Mathematics, and Science.
AU INSTITUTIONAL AUTHOR: JETS, Inc., New York, NY.
AV AVAILABILITY: Jets, Inc.; 1420 King St., #405, Alexandria, VA 22314-2715.
GL GRADE LEVEL: 9; 10; 11; 12.
AB ABSTRACT: An academic sport in which teams of students from local high schools compete for awards in biology, chemistry, engineering graphics, English, mathematics, and physics. Competitors take the tests as individuals but scores in each subject area are added together to determine the best team score. Five subject exams, which must include mathematics, chemistry, and English, are used to determine the champion team. The optional tests, from which two are selected, are biology, physics, and engineering graphics. All tests are multiple-choice and take 40 minutes to complete. Students must belong to JETS, a national, nonprofit organization encouraging interest in engineering, technology, and science, to enter a TEAMS competition at the national level.

AN ACCESSION NUMBER: TC013426 ETS 8512.
TI TITLE: Mosby Rad Tech Assess Test.
DT SUBTESTS: Principles of Radiographic Exposure; Radiographic Positioning and Procedures; Anatomy and Physiology, Physics and Equipment of Radiation Protection.
AU INSTITUTIONAL AUTHOR: C.V. Mosby CompanySt. Louis, MO.
YR YEAR: 82.
AV AVAILABILITY: C.V. Mosby Company; 11830 Westline Industrial Dr., St. Louis, MO 63146.
GL GRADE LEVEL: Higher Education.
NT NOTES:
TIME: 240.
ITEMS: 250.
AB ABSTRACT: A practice exam taken prior to testing with the American Registry of Radiologic Technologists certification examination. Purchased by schools having programs in radiography for administration to their students. Tests knowledge of radiography, comprehension, application and analysis. Scoring reports the rationale behind students' answers.

AN ACCESSION NUMBER: TC013288 ETS 8512.
TI TITLE: DANTES: Principles of Physical Science I.
DT SUBTESTS: Physical Forces; Energy and Radiation; Pressure and Heat; Atoms and Atomic Properties; Chemical Properties and Atomic Structure; General Properties and the Solar System; Scientific Principles.
AU INSTITUTIONAL AUTHOR: Educational Testing Service. Princeton, N.J.
AV AVAILABILITY: Educational Testing Service; Mail Stop 17 P, Princeton, NJ 08540.
TG TARGET AUDIENCE: Adults.
NT NOTES:
TIME: 90; approx.
ITEMS: 77.
AB ABSTRACT: The DANTES program is a series of secured tests administered by postsecondary institutions to grant credit by examination for education gained outside the classroom. Examinations may be worth from two to six credit hours in a baccalaureate program, baccalaureate upper division program, or a technical program. A minimum score for credit has been established by the American Council on Education. Individual institutions administer examinations, as well as set the fees and schedules. These instruments complement the College Board's College Level Examination Program (CLEP) with several instruments in applied technology. They were originally developed for military personnel. Major areas of assessment include mathematics, social science, physical science, business, foreign language, and applied technology. For each test a fact sheet containing the curriculum specifications of the course, a list of texts on which the test is based and statistical information are available. Qualified administrators and faculty may borrow sample tests for a period of thirty days. This

instrument is one of a series assessing knowledge in college level physical science. Knowledge of physical force, scientific princiles, and atoms, atomic structure, and atomic properties is assessed. Forms SC and SD are available. ACE recommends granting three semester hours of credit at the baccalaureate level to successful candidates.

AN ACCESSION NUMBER: TC013286 ETS 8512.
TI TITLE: DANTES: Astronomy.
DT SUBTESTS: Basic Observational Concepts; Instrumentation; Laws of Motion; Radiation Laws; The Solar System; Stars; Interstellar Medium; Stellar Systems; Cosmologies.
AU INSTITUTIONAL AUTHOR: Educational Testing Service, Princeton, N.J.
AV AVAILABILITY: Educational Testing Service; Mail Stop 17 P, Princeton, NJ 08540.
TG TARGET AUDIENCE: Adults.
NT NOTES:
TIME: 90; approx.
ITEMS: 91.
AB ABSTRACT: The DANTES program is a series of secured tests administered by postsecondary institutions to grant credit by examination for education gained outside the classroom. Examinations may be worth from two to six credit hours in a baccalaureate program, baccalaureate upper division program, or a technical program. A minimum score for credit has been established by the American Council on Education. Individual institutions administer examinations, as well as set the fees and schedules. These instruments complement the College Board's College Level Examination Program (CLEP) with several instruments in applied technology. They were originally developed for military personnel. Major areas of assessment include mathematics, social science, physical science, business, foreign language, and applied technology. For each test a fact sheet containing the curriculum specifications of the course, a list of texts on which the test is based and statistical information are available. Qualified administrators and faculty may borrow sample tests for a period of thirty days. This instrument is one of a series assessing knowledge in college level physical sciences. Knowledge of laws of motion and radiation; solar system; stars; stellar systems; instrumentation; and cosmologies are assessed. Forms SC and SD are available. ACE recommends awarding three semester hours of credit at the baccalaureate level to successful candidates.

AN ACCESSION NUMBER: TC012854 ETS 8410.
TI TITLE: Physics Achievement Test.
AU INSTITUTIONAL AUTHOR: Harvard Univ. Cambridge, Mass. Harvard Project Physics.
YR YEAR: 66.
AV AVAILABILITY: ERIC Document Reproduction Service (EDRS); Cincinnati Bell Information Systems Federal, 7420 Fullerton Rd., Suite 110, Springfield, VA 22153-2852 (ED 120 017; 15 pages).
GL GRADE LEVEL: 9; 10; 11; 12.
NT NOTES:
TIME: 40.
ITEMS: 36.
AB ABSTRACT: This document is an evaluation instrument developed as a part of the Harvard Project Physics (HPP). It is not intended to be a measure of knowledge of Harvard Project Physics, but rather to know how much general physics the student understands before taking the course so that the student's progress may be tracked throughout the term. The test consists of a 36-item, multiple choice (five options) physics achievement test designed to measure general knowledge of physics as well as the material emphasized in HPP.

AN ACCESSION NUMBER: TC012356 ETS 8410.
TI TITLE: Multiple-Choice Cloze Exercises: Textual Domain, Science, Revised 1977.
DT SUBTESTS: Physics; Chemistry; Earth Science; Biology; Applied Science.
AU INSTITUTIONAL AUTHOR: New York State Education Dept., Albany. Div. of Research.
YR YEAR: 77.
AV AVAILABILITY: ERIC Document Reproduction Service (EDRS); Cincinnati Bell Information Systems Federal, 7420 Fullerton Rd., Suite 110, Springfield, VA 22153-2852 (ED 226 032; 219 pages).
GL GRADE LEVEL: 3; 4; 5; 6; 7; 8; 9; 10; 11; 12.
NT NOTES:
ITEMS: 200.
AB ABSTRACT: The "Test Development Notebook" is a resource designed for the preparation of tests of literal comprehension of students in grades 1 through 12. There are a total of 1725 multiple choice closure exercises in the collection. The exercises have a common multiple choice cloze format; they use passages from domains or types of materials that students read, and the passages are graded by difficulty levels. The Multiple Choice Cloze Exercises: Handbook is available from ERIC Document Reproduction Service; P.O. Box 190, Arlington, VA 22210 (ED 226 028). Instrument consists of 200 items based on material drawn from science texts for grades 3-12. Maximum difficulty level for this instrument is 32.

AN ACCESSION NUMBER: TC011839 ETS 8410.
TI TITLE: NTE Specialty Area Tests: Chemistry, Physics and General Science.
AU INSTITUTIONAL AUTHOR: Educational Testing Service, Princeton, N.J.
YR YEAR: 82
AV AVAILABILITY: NTE Programs, Educational Testing Service; Box 911 P, Princeton, NJ 08541.
GL GRADE LEVEL: Higher Education.
NT NOTES:
TIME: 120.
AB ABSTRACT: Part of a standardized, secure measure of academic achievement for college students in, or completing, teacher education programs. Used by associations, school systems, state agencies, and institutions, for decisions about the certification and selection of teachers. One of 27 tests measuring understanding of the content and methods applicable to teaching in subject areas. This test covers: major ideas of chemistry and physics; chemistry; physics; astronomy; geology; meteorology; biology.

AN ACCESSION NUMBER: TC011639 ETS 8410.
TI TITLE: New York State Regents Examinations.
AU INSTITUTIONAL AUTHOR: New York State Education Dept., Albany. Bureau of Elementary and Secondary Educational Testing.
AV AVAILABILITY: New York State Education Department; Bureau of Elementary and Secondary Testing, University of the State of New York, Albany, NY 12234.
GL GRADE LEVEL: 9; 10; 11; 12.
AB ABSTRACT: Statewide testing program used to measure achievement and grant scholarships. Exams are available in: English, mathematics, biology, social studies, chemistry, Spanish, French, German, Hebrew, Italian, Latin, earth science; physics, bookkeeping, business law, business mathematics, and shorthand. Most of the exams are used in grades 11-12.

AN ACCESSION NUMBER: TC011637 ETS 8410.
TI TITLE: New York State General Science Examinations.
AU INSTITUTIONAL AUTHOR: New York State Education Dept., Albany. Bureau of Elementary and Secondary Educational Testing.
AV AVAILABILITY: New York State Education Department; Bureau of Elementary and Secondary Testing, University of the State of New York, Albany, NY 12234.
GL GRADE LEVEL: 9; 10; 11; 12.
AB ABSTRACT: Used by school districts in New York State that have developed their own adaptations of statewide curricula. Examinations are in general biology, general chemistry, general physics.

AN ACCESSION NUMBER: TC011442 ETS 8410.
TI TITLE: EDS Diagnostic Skill Level Inventory for Science.
DT SUBTESTS: Introduction; Physics; Chemistry; Geology; Astronomy; Biology; Physiology.
AU AUTHOR: Henney-R-Lee.
YR YEAR: 75.
AV AVAILABILITY: Educational Diagnostic Services; 2370 County Road 13, Corunna, IN 46730.
TG TARGET AUDIENCE: Adults.
NT NOTES:
TIME: 60.
ITEMS: 40.
AB ABSTRACT: Developed to diagnose the strengths and weaknesses of adult students at the high school level. Each inventory allows diagnosis of functional weaknesses within that academic discipline in order to concentrate on specific problems between the 9 to 12 equivalent grade levels. Can be used for predictive assessments for passing the new General Educational Development Tests (GED).

AN ACCESSION NUMBER: TC011250 ETS 8410.
TI TITLE: Advanced Placement Program: Physics C.
DT SUBTESTS: Mechanics; Electricity and Magnetism.
AU INSTITUTIONAL AUTHOR: Educational Testing ServicePrinceton, N.J.
YR YEAR: 81.
AV AVAILABILITY: Advanced Placement Program; Box 6670, Princeton, NJ 08541.
GL GRADE LEVEL: 10; 11; 12.
NT NOTES: See also APP: Physics B (TC002840).
TIME: 180.
AB ABSTRACT: Designed to assess achievement in a full year college course of introductory physics with calculus. The number of items may vary from year to year. The Advanced Placement Program has been sponsored by the College Board since 1955. Candidates may take either Physics B or C examination.

AN ACCESSION NUMBER: TC006998 ETS 8410.
TI TITLE: Test De Comprension Mecanica Bennett.
AU AUTHOR: Bennett-George-K.
YR YEAR: 70.
AV AVAILABILITY: The Psychological Corporation; 555 Academic Court, San Antonio, TX 78204-0952.
TG TARGET AUDIENCE: AGE 14-64.
NT NOTES:
TIME: 30.
ITEMS: 68.
AB ABSTRACT: In Spanish. Designed to measure the ability to perceive and comprehend the relationship of mechanical elements and physical law, and to apply this knowledge to new, practical situations. Administered to high school students, candidates and students in

engineering schools, applicants and current employees of mechanical jobs, for other adult males of comparable ability and education and for all women competing for or currently in comparable jobs or educational levels. Includes both Form S and Form T, which are revisions of earlier Forms AA, BB, CC and W1. Form S and T have a wider range of difficulty, are for both men and women, and are timed. Scoring is the number correct, with no reduction of score for incorrect answers. Directions and instructions also available as Spanish Language Tape Recording.

AN ACCESSION NUMBER: TC006697 ETS 8410.
TI TITLE: Questions and Problems in Science: Test Item Folio No. 1.
AU AUTHOR: Dressel-Paul-L; Nelson-Clarence-H.
YR YEAR: 56.
AV AVAILABILITY: ERIC Document Reproduction Service (EDRS); Cincinnati Bell Information Systems Federal, 7420 Fullerton Rd., Suite 110, Springfield, VA 22153-2852 (ED 054 231; 850 pages).
GL GRADE LEVEL: Higher Education.
AB ABSTRACT: Designed to assist college instructors in preparing science examinations directly related to course work. The questions and problems are organized under thirty subject matter headings in each major subdivision: Biological Science and Physical Science. The major headings in the taxonomy of objectives are knowledge, comprehension, application, analysis, synthesis, and evaluation.

AN ACCESSION NUMBER: TC006156 ETS 8410.
TI TITLE: The Floating and Sinking of Objects.
AU AUTHOR: Laurendeau-Monique; Pinard-Adrien.
YR YEAR: 62.
AV AVAILABILITY: Laurendeau, Monique and Pinard, Adrien; Causal Thinking in the Child. New York: International Universities Press, Inc., 1962.
TG TARGET AUDIENCE: AGE 4-12.
NT NOTES:
AB ABSTRACT: Designed to assess child's understanding of physical laws. This provides information about his logic and mental representations.

AN ACCESSION NUMBER: TC005009 ETS 8410.
TI TITLE: Bennett Mechanical Comprehension Test, Form T.
AU AUTHOR: Bennett-George-K.
YR YEAR: 68.
AV AVAILABILITY: The Psychological Corporation; 555 Academic Court, San Antonio, TX 78204-0952.
TG TARGET AUDIENCE: AGE 14-64.
NT NOTES:
TIME: 30.
ITEMS: 68.

AB ABSTRACT: Designed to measure the ability to perceive and comprehend the relationship of mechanical elements and physical law, and to apply this knowledge to new, practical situations. Administered to high school students, candidates and students in engineering schools, applicants and current employees of mechanical jobs, for other adult males of comparable ability and education, and for all women competing for or currently in comparable jobs or educational levels. Forms S and T are revisions of earlier Forms AA, BB, CC and W1. They have a wider range of difficulty, are for both men and women, and are timed. Scoring is the number correct, with no reduction of score for incorrect answers.

AN ACCESSION NUMBER: TC005008 ETS 8410.
TI TITLE: Bennett Mechanical Comprehension Test, Form S.
AU AUTHOR: Bennett-George-K.
YR YEAR: 68.
AV AVAILABILITY: The Psychological Corporation: 555 Academic Court, San Antonio, TX 78204-0952.
TG TARGET AUDIENCE: AGE 14-64.
NT NOTES:
TIME: 30.
ITEMS: 68.
AB ABSTRACT: Designed to measure the ability to perceive and comprehend the relationship of mechanical elements and physical law, and to apply this knowledge to new, practical situations. Administered to high school students, candidates and students in engineering schools, applicants and current employees of mechanical jobs, for other adult males of comparable ability and education, and for all women competing for or currently in comparable jobs or educational levels. Forms S and T are revisions of earlier Forms AA, BB, CC and W1. They have a wider range of difficulty, are for both men and women, and are timed. Scoring is the number correct, with no reduction of score for incorrect answers.

AN ACCESSION NUMBER: TC003716 ETS 8410.
TI TITLE: Graduate Record Examinations: Subject Tests--Physics.
AU INSTITUTIONAL AUTHOR: Educational Testing Service, Princeton, N.J.
YR YEAR: 82.
AV AVAILABILITY: Educational Testing Service; Princeton, NJ 08541.
GL GRADE LEVEL: Higher Education.
NT NOTES:
TIME: 170.
ITEMS: 90.
AB ABSTRACT: Designed to measure knowledge and understanding of physics basic to graduate study. Designed to be a power rather than speed test. For reasons of fairness, several editions are available each year. Large print answer sheets are available though the test itself is in regular sized print. In developing each new edition, special effort is made to survey the entire academic field and to

include materials from widely differing curricula. Used for selection of applicants for graduate school, selection of fellowship applicants, guidance and counseling, evaluation of the effectiveness of an undergraduate or master's program, requirement for conferral of a degree, senior comprehensive examination at the undergraduate level, and comprehensive examination for advancement to a master's or doctoral program. Known as Cooperative Graduate Testing Program until 1940.

AN ACCESSION NUMBER: TC003304 ETS 8410.
TI TITLE: College Board Achievement Test in Physics.
AU INSTITUTIONAL AUTHOR: Educational Testing Service, Princeton, N.J.
YR YEAR: 80.
AV AVAILABILITY: The College Board; Box 2844; Princeton, NJ 08541.
GL GRADE LEVEL: 9; 10; 11; 12.
NT NOTES:
TIME: 60; approx.
ITEMS: 75.
AB ABSTRACT: Assesses knowledge of specific subject area. Designed as part of the Admissions Testing Program (ATP) administered by the College Board to high school juniors and seniors. Many colleges require the tests for admission and some use the results for placement. Test specifications are revised each year. Test is designed to measure what subject matter student knows and how effectively he can use this knowledge. Content areas include classical mechanics, electricity and magnetism, heat and kinetic theory, and modern physics.

AN ACCESSION NUMBER: TC002840 ETS 8410.
TI TITLE: Advanced Placement Program: Physics B.
AU INSTITUTIONAL AUTHOR: Educational Testing Service, Princeton, N.J.
YR YEAR: 81.
AV AVAILABILITY: Advanced Placement Program; Box 6670, Princeton, NJ 08541.
GL GRADE LEVEL: 10; 11; 12.
NT NOTES:
TIME: 180.
AB ABSTRACT: Designed to assess achievement in a full year college non-calculus course on general physics. The number of items may vary from year to year. The Advanced Placement Program has been sponsored by the College Board since 1955. Candidates may take either Physics B or C examination.

AN ACCESSION NUMBER: TC002721 ETS 8410.
TI TITLE: College-Level Examination Program: General Examination in Natural Sciences.
DT SUBTESTS: Biological Science: Physical Science.
AU INSTITUTIONAL AUTHOR: Educational Testing Service, Princeton, N.J.

YR YEAR: 81.
AV AVAILABILITY: College-Level Examination Program; Box 6601, Princeton, NJ 08541.
GL GRADE LEVEL: Higher Education.
TG TARGET AUDIENCE: Adults.
NT NOTES:
TIME: 90.
ITEMS: 120.
AB ABSTRACT: CLEP enables both traditional and nontraditional students to earn college credit by examination. Designed to test knowledge and understanding of scientific concepts that should be attained by a well-educated adult. Tests are updated periodically.

AN ACCESSION NUMBER: TC800212 ETS 8304.
TI TITLE: Science Library of Test Items. Volume 20: A Collection of Multiple Choice Test Items Relating Mainly to Physics - 1.
AU INSTITUTIONAL AUTHOR: New South Wales Dept. of Education, Sydney (Australia).
YR YEAR: 81.
AV AVAILABILITY: ERIC Document Reproduction Service (EDRS); Cincinnati Bell Information Systems Federal, 7420 Fullerton Rd., Suite 110, Springfield, VA 22153-2852 (ED 223 631; 105 pages).
GL GRADE LEVEL: 7; 8; 9; 10.
TG TARGET AUDIENCE: AGE 12-16.
AB ABSTRACT: The Science Library of Test Items is a series of instruments developed for use in the New South Wales Australia junior secondary systems. Material is designed for students aged 12-16 in grades 7-10. The grade levels are roughly equivalent to those in the United States. Criterion referenced mastery tests may be compiled for specific course requirements from items in the program. The first of two volumes containing the collection of multiple choice items relating to Physics. Volume 20 contains items which assess measurement and scales; simple machines, properties of matter, energy, electromagnetic radiation, heat, light and optics, sound, communications, and meteorology.

AN ACCESSION NUMBER: TC800211 ETS 8304.
TI TITLE: Science Library of Test Items. Volume 21: A Collection of Multiple Choice Test Items Relating Mainly to Physics - 2.
AU INSTITUTIONAL AUTHOR: New South Wales Dept. of Education, Sydney (Australia).
YR YEAR: 81.
AV AVAILABILITY: ERIC Document Reproduction Service (EDRS); Cincinnati Bell Information Systems Federal, 7420 Fullerton Rd., Suite 110, Springfield, VA 22153-2852 (ED 223 632; 127 pages).
GL GRADE LEVEL: 7; 8; 9; 10.
TG TARGET AUDIENCE: AGE 12-16.
AB ABSTRACT: The Science Library of Test Items is a series of instruments developed for use in the New South Wales Australia

junior secondary systems. Material is designed for students aged 12-16 in grades 7-10. The grade levels are roughly equivalent to those in the United States. Criterion referenced mastery tests may be compiled for specific course requirements from items in the program. One of two volumes containing the collection of multiple choice items relating to Physics. Volume 21 assesses electrostatics, electrodynamics, electronics, magnetism, mass and density, pressure, moving bodies, radioactivity, and astronomy.